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Aug 20, 2002

US-PAT-NO: 6436688

DOCUMENT-IDENTIFIER: US 6436688 B1

TITLE: Human lysozyme gene, its encoding polypeptide and the method preparing for them

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Long	Shanghai			CN
Fu; Qiang	Shanghai			CN
Zhao; Yong	Shanghai			CN
Zhang; Honglai	Shanghai			CN
Bi; Anding	Shanghai			CN

US-CL-CURRENT: 435/206; 435/252.33, 435/320.1, 435/325, 536/23.2, 536/23.5

CLAIMS:

What is claimed is:

1. An isolated DNA molecule having a nucleotide sequence encoding a polypeptide having the amino acid sequence of SEQ ID NO:4 or amino acids 20-148 of SEQ ID NO:4.
2. The DNA molecule of claim 1 wherein said nucleotide sequence encodes a polypeptide having the amino acid sequence of amino acids 20-148 of SEQ ID NO: 4.
3. The DNA molecule of claim 1 wherein said nucleotide sequence has the nucleotide sequence of nucleotides 106-552 of SEQ ID NO: 3.
4. An isolated LYC2 polypeptide having the amino acid sequence of SEQ ID NO: 4 or of amino acids 20-148 of SEQ ID NO: 4.
5. The polypeptide of claim 4 wherein said polypeptide has the amino acid sequence of amino acids 20-148 of SEQ ID NO: 4.
6. A vector containing the DNA sequence of claim 1.
7. A host cell transformed by the vector of claim 6.
8. The host cell of claim 7 which is E.coli.
9. The host cell of claim 7 which is a eukaryotic cell.
10. A method for producing a LYC2 protein which comprises: (a) introducing an expression vector for producing a LYC2 protein, said vector comprising a nucleotide sequence encoding a polypeptide having the amino acid sequence of SEQ ID NO:4 or of amino acids 20-148 of SEQ ID NO:4, wherein said nucleotide sequence is operably linked to at least one expression control sequence, into a host cell, thereby forming a recombinant host cell; (b) culturing the recombinant host cell

of (a) under conditions suitable for expression of the DNA molecule encoding the polypeptide, such that LYC2 protein is produced; and (c) isolating the LYC2 protein so produced.

11. The method of claim 10 wherein said nucleotide sequence comprises nucleotides 106-552 of SEQ ID NO: 3.

12. An isolated nucleotide molecule which is the antisense sequence of the DNA molecule of claim 1.